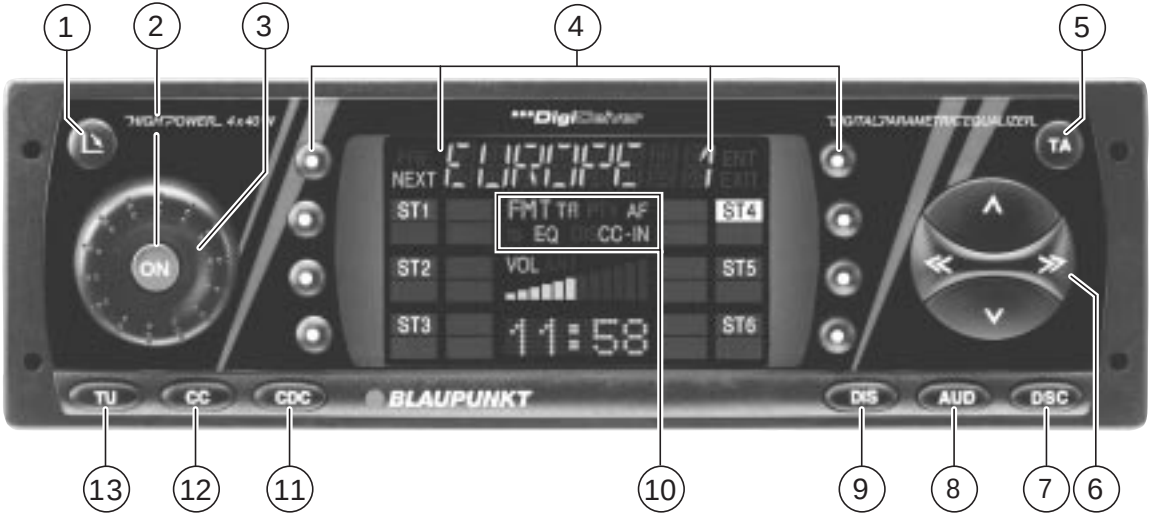
Radio / Cassette

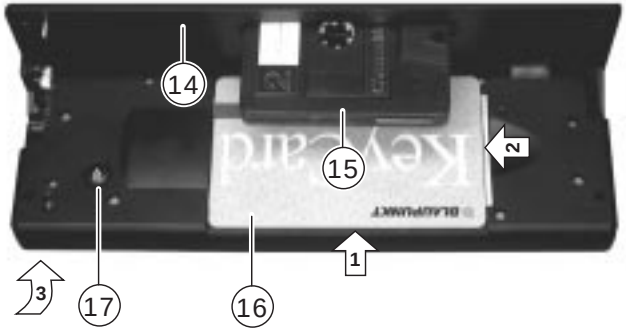
Chicago RCM 169
Hannover 2000 DJ
Kansas DJ
Montreal RCM 169
Paris RCM 169

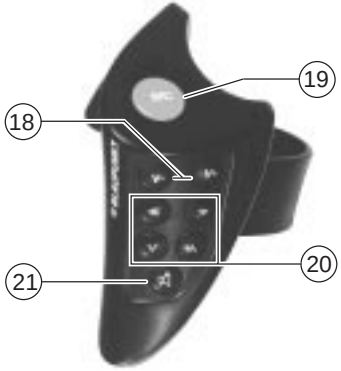
Operating instructions

BLAUPUNKT

Bosch Gruppe







Chicago RCM 169

<u>Option / Optional / Tilval / Optie / Opcional / Opção:</u>

Hannover 2000 DJ
Kansas DJ
Montreal RCM 169
Paris RCM 169

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① **Unlocking the fold-down operating panel**

It is possible to insert or remove the KeyCard and the cassette when the operating panel is unlocked.

To unlock the panel press ①, the operating panel will fold down. The operating panel cannot be removed. Do not use the panel as a rest or shelf.

To lock the panel, push it back into its starting position (arrow 3).

⚠ **For safety's sake, the operating panel must remain locked when the vehicle is in motion.**
When you leave the vehicle, unlock the panel and remove the KeyCard to protect the equipment against theft.

② **ON**

Switching the unit on:

With the KeyCard inserted, press **ON** briefly.

The unit will begin to play in the operating mode selected last at the pre-set volume.

To switch off the unit:

Press **ON** for approx. 1 second.

! The viewing angle of the display can be adjusted individually to ensure optimum legibility. If necessary, refer to the section on "Optimising the display legibility".

Switching the sound on/off:

Press **ON** briefly. When the sound has been switched off, "MUTE" will appear in the display.

The sound can be switched on again by turning the volume knob ③.

Switching the unit on/off with the KeyCard:

The unit switches on or off when the KeyCard is inserted or removed.

Refer to section ⑯ in the Quick Reference on the KeyCard theft protection system.

Switching the unit on/off with the ignition:

If the unit has been connected accordingly, it can be switched on and off with the car ignition.

After you switch off the ignition, a double beep will sound to remind you to remove the KeyCard and take it with you.

Switching the unit on with the ignition switched off:

After you have switched off the ignition (KeyCard is inserted in the unit), you can continue to operate the unit as follows:

After the double beep press **ON**.

The unit will switch on.

After the unit has played for an hour it will switch off automatically to prevent the car battery from running down.

③ **Adjusting the volume**
Turn the knob to adjust the volume as desired.

The volume level selected will appear in the display. When the unit is switched on, it will automatically play at the pre-set volume (ON VOL).
It is possible to adjust the ON VOL (refer to “DSC programming - ON VOL”).

④ **Softkeys / Display**
Softkey = key with different functions
The functions which appear in the display can be selected.

Radio operation

While listening to the radio you can press **TU** to switch between menu level 1 and menu level 2.
The unit will return to menu level 1 automatically 8 seconds after the last key is pressed.

Menu level 1
Station keys and memory levels

NEXT - FM
Switches between the memory levels for FM I, FM II, FM T.
NEXT - AM (MW, LW)
Switches between the MW and LW wavebands.

ST1 - ST6
On this memory level it is possible to store radio stations on the FM levels I, II and “T” on the keys marked ST1 to ST6. 6 stations each can be stored for the MW and LW wavebands.
Storing a radio station - Press one of the station keys from ST1 to ST6 until it is possible to hear the program again (beep).
Recalling a radio station - Select the desired waveband. For FM press **NEXT** to select the memory level required and press the corresponding station key briefly.

Menu level 2
Adjusting the radio functions

NEXT - FM
Switches between the memory levels for FM I, FM II, FM T.
NEXT - AM (MW, LW)
Switches between the MW and LW wavebands.

BND
Selects the waveband and memory level (FM I, FM II, FM T, MW, LW).

SCA - Scan
a) PTY is switched off
(lettering is lit normally, not highlighted in the display)
Press **SCA** briefly (Radio Scan) - “SCAN” will flash in the display alternately with the abbreviation for the station being scanned. All of the radio stations within reception range will be scanned.

Press **SCA** for approx. 1 second (Preset Scan) -
You will hear a beep and “SCAN” will flash in the display alternately with the abbreviation for the station being scanned. The radio stations which have been stored on the station keys and which are currently within reception range will be scanned.

Stopping Radio Scan / Preset Scan:
Press **SCA** or the rocker switch once again.

b) PTY is switched on
(lettering is highlighted in the display)

Press **SCA** -
the stations broadcasting the programs for the PTY program type selected will be scanned.

AF (**A**lternative **F**requency for RDS operation)
If “AF” is highlighted in the display, the radio will automatically search for a frequency with better reception for the station you are tuned into.
AF on/off: Press **TU** to select menu level 2 and press **AF** briefly.

EXIT
Press this key briefly to end or cancel an adjustment.

ENT (Enter)
Press this key briefly to accept or store an adjustment.

TS (**T**ravel**s**tore)
If you press **TS**, the radio will switch to FMT from any other waveband. The six stations with the strongest reception will be stored automatically. After the stations have been stored, the radio will tune into the station with the best reception and begin to play.

PTY
(**P**rogram **Ty**pe)
With PTY the station keys become program type keys.
“PTY” must be highlighted in the display (press **PTY** if necessary).
Now it is possible to select a program type such as NEWS, SPORT, POP, and store it on one of the station keys.
Press **<< >>** to activate the PTY program types and press the station keys to store them (press the key for approx. 2 seconds, until you hear a beep).

REG (**Reg**ional function)
This function is active when “REG” is highlighted in the display.
REG on/off: Press **TU** to select menu level 2 and press **REG** briefly.
If necessary, refer to the section on REG - Regional in the more detailed instructions.

<u>Cassette operation</u>

In the cassette mode, the softkeys can be used to select the corresponding cassette functions.

REVerse
Switches to the opposite track (side). The display indicates which track is currently playing (Side A/B).

SCA (**Sca**n)
Briefly scans the cassette titles.
Starting/ending Scan: Press **SCA**.
When the function is active, “SCAN” will appear in the display.

RPT (**Rep**eat)
To repeat the scanned or the next title. The title will repeat until RPT is switched off.
The Repeat function will end automatically when the cassette is removed or the set is switched off.
Switching Repeat on/off: Press **RPT**, the activated function will appear briefly in the display to indicate whether it is switched on or off.

Dolby B NR*
Cassettes recorded using Dolby B NR will playback in the best quality when the symbol appears on a highlighted background.

* The noise reduction system is manufactured under licence by the Dolby Laboratories Licensing Corporation. The word DOLBY and the double-D symbol are trademarks of the DOLBY Laboratories.

RM (**R**adio **M**onitor)
To listen to the radio while fast forwarding or rewinding the tape. When “RM” appears highlighted in the display, it is possible to listen to the radio while the tape is rewinding or forwarding.
Switching Radio Monitor on/off: Press **RM**, the activated function will appear briefly in the display to indicate whether it is switched on or off.

BLS (**Bl**ank **S**kip)
The set skips over blank portions of the tape when “BLS” appears highlighted in the display. As soon as there is a break of more than 10 sec. during cassette playback, the fast forward function will be activated to move to the next title.
Switching Blank Skip on/off: Press **BLS**, the activated function will appear briefly in the display to indicate whether it is switched on or off.

Changer operation

In the changer mode, the softkeys can be used to select the corresponding changer functions.

MIX
CD tracks will be played in random order.
Press the **MIX** key to select the following functions:
- MIX CD = the tracks on the CD will be played in random order.
  If you are using a CD changer, the CDs will be selected in numerical order and the tracks in random order.
- MIX MAG = all of the tracks on all of the CDs in the magazine will be played in random order.
- MIX OFF = switches the function off.

SCA - Scan
Scans all of the tracks on a CD.

Start Scan:
Press **SCA**. The tracks will be scanned in ascending order one after the other. The scan time can be adjusted (see “DSC programming - SCANTIME”).

Stop Scan:
Press **SCA**. The track scanned last will begin to play.

RPT - Repeat
CD tracks or CDs in the CD changer can be repeated as often as desired. Press the **RPT** key to select one of the following functions:
- REP TRCK = Repeat track
- REP CD = Repeat CD
- RPT OFF = switches the function off

TPM - Track **P**rogram **M**emory
Stores and plays your favourite tracks. It is possible to manage up to 99 CDs with up to 40 tracks. (Refer to the section on “TPM programming”.)

CLR
To clear the TPM memory. (See the section on “TPM - Deleting the memory”)

(5) **TA** (**T**raffic **A**nnouncement = priority for traffic information)
“TP” will appear in the display when the radio is tuned into a traffic information station.
“TA” will appear in the display when the priority for traffic information has been activated.
The radio will then play traffic information radio stations only.
Priority on/off: Press **TA**.
Interrupt an announcement: Press **TA** or **EXIT**.

(6) **Rocker switch**

Radio operation

If you press the rocker switch when the unit is on menu level 2, it will automatically return to menu level 1.

^ / v **Station seek tuning**
^ up
v down

<< / >> down/up in short intervals (for FM only when AF and PTY are switched off)

For FM only:
<< / >> Pages through the station chain with AF on and PTY off
e.g.: NDR 1, 2, 3, 4, N-JOY, ...

Cassette operation

^ / v **Select title (S-CPS)**
^ **forwards**
v **back**

>> **fast forward**
<< **fast rewind**

Changer operation

<< / >> **Select CD**
>> **up:** Press briefly
<< **down:** Press briefly

Select track

up: Press briefly
CUE - fast forward (audible): Hold pressed down

down: Press twice or repeatedly briefly
To restart the track: Press briefly
REVIEW - fast reverse (audible): Hold pressed down

Additional functions for the rocker switch:
Other adjustments are possible with
AUD (8)
DSC-MODE (7)
PTY
as long as the corresponding function is activated.

(7) **DSC** (**D**irect **S**oftware **C**ontrol)
Using DSC it is possible to adjust the programmable basic settings.
Further information: “DSC programming”.

(8) **AUD**
Adjusts treble, bass, balance (left/right), fader (front/rear) and Loudness. Loudness = Boosts low frequency for more bass and a better adjustment to the human ear.

Kansas DJ, Chicago RCM 169:
For FM, AM, CD, AUX and TA it is possible to store different treble, bass and loudness settings.

How to make the settings:
Select the operating mode.
Press **AUD** once, “BASS” and the level currently selected will appear in the display.

Use **<<** / **>>** to select the different modes.
Use ⋀ / ⋁ to make the corresponding settings.
The settings selected will appear in the display. The setting selected last will be stored automatically.

Special Loudness feature:
Press ⋀ / ⋁ to select the setting from LOUD 6 to LOUD OFF.

Switching off AUD:
Press **EXIT**.
If you do not alter any of the settings, AUD will switch off automatically after 8 seconds.

Additional feature
Switching the equaliser on/off (DPE ON/OFF):
Press **AUD** for approx. 2 seconds.
“DPE ON” or “DPE OFF” will appear briefly in the display.
For more information on the equaliser: Refer to “Setting the equaliser”.

(9) **DIS**
Selects different display modes.

Radio operation

Press **DIS** briefly:
- Name of the current radio station
- Current frequency
- PTY code

This will not work properly unless the radio is able to receive an RDS station in adequate reception quality.

Press **DIS** for approx. 2 seconds:
Display will alternate between the clock and the waveband (incl. the memory level for FM).

Cassette operation

Press **DIS** briefly:
The display mode selected will appear briefly in the display.

"COUNTER" - tape counter
"CLOCK" - time
"ELAPSED" - elapsed playing time for the tape side
"REMAIN" - remaining playing time on the tape side

Changer operation

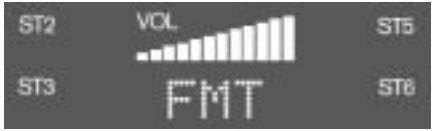
Press **DIS** briefly:
- CD number, track number, clock
- CD number, track number, time played
- CD name, track number

⑩ **Display**

NDR2 - station name
FM - waveband
I, II, T - memory level I, II or Travel-store
TP, TA - TP = Traffic Program
- TA = Priority for traffic information is activated
PTY - Program type is activated
AF - Alternative frequency for RDS
lo - Seek tuning sensitivity adjustable with DSC
EQ - Equaliser is switched on
CC-IN - Cassette is inserted

SIDE A - Side (track) A is playing
REV - Reverse (tape side reverse)
SCA - Scans cassette titles briefly
RPT - Title repeat function for cassette operation
DOLBY - Dolby B NR is active
RM - Radio listening during fast tape forwarding or rewind
BLS - Blank tape portions will be skipped automatically

CD 10 T3 or VIVALDI - CD number and track number or CD name
MIX - CD tracks can be played in random order
SCA - CD tracks are being scanned
RPT - Repeat function for changer operation
TPM - Store and play favourite CD tracks
CLR - Delete TPM memory



FM I, II, T - FM memory level
or
MW, LW - Waveband
or
00:20 - Time played
or
12:50 - Clock

⑪ **CDC**
Switches to changer operation (only if a changer is connected).
If there is no changer, the system will switch to AUX as long as AUX ON is switched on in the DSC menu.

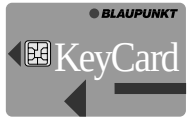
⑫ **CC**
Switches to cassette operation

⑬ **TU** (**TU**NER)
Switches to radio operation. Switches to the memory levels/wavebands FM I, FM II, TS (Travelstore), MW and LW.

⑭ **Cassette slot**
Insert cassette (Side A or 1 facing up; opening to the right).

⑮ **Visual theft protection**
The following conditions must be fulfilled before the light diode will flash as a visual indication of theft protection:
The unit is switched off;
The operating panel is folded down;
The KeyCard has been removed;
The DSC menu settings is switched to LED ON (factory setting).
For more information, refer to “DSC programming, LED ON/OFF”.

⑯ **KeyCard theft protection system**
The KeyCard must be inserted before the unit can be operated.



Inserting the KeyCard
Press ① to unlock the operating panel; it will fold down forwards.
Insert **the KeyCard with the contact points facing down** (see illustration).
Lock the operating panel.

Perform these steps in the reverse order to remove the KeyCard.
Make sure to read the information in the section on “KeyCard theft protection system”.

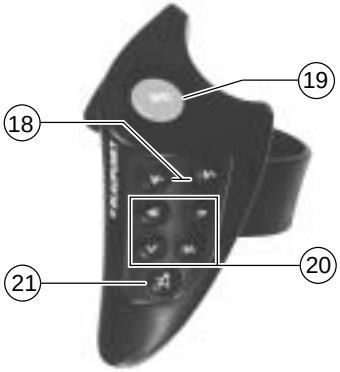
⑰ **Eject**
Press the Eject button briefly to eject the cassette.

⚠ **For safety’s sake, the operating panel must remain locked when the vehicle is in motion.**
When you leave the vehicle, unlock the panel and remove the KeyCard to protect the equipment against theft.

RC 08 remote control unit

Included with package: Chicago RCM 169

Optional: Hannover 2000 DJ
Kansas DJ
Montreal RCM 169
Paris RCM 169



⑱ **V- / V+**
Volume control

⑲ **SRC** (**S**ou**rc**e)
Switches operating modes
- Radio
- CC (Cassette)
- Changer (if a changer is connected)

⑳ **<< / >>, ^ / v**

Radio operation

Station seek tuning
^ up
v down

<< / >> down/up in short intervals (for FM only when AF and PTY are switched off)

For FM only:
<< / >> Pages through the station chain with AF on and PTY off e.g.: NDR 1, 2, 3, 4, N-JOY, ...

Cassette operation

^ / v **Select title (S-CPS)**
^ forwards
v back

>> fast forward
<< fast rewind

Changer operation

<< / >> **Select CD**
>> **up:** Press briefly
<< **down:** Press briefly

^ / v **Select track**
^ **up:** Press briefly
CUE - fast forward (audible): Hold pressed down
v **down:** Press twice or repeatedly briefly
To restart the track: Press briefly
REVIEW - fast reverse (audible): Hold pressed down

㉑ 🔇
Sound mute on/off:
Press 🔇 briefly. When the sound has been switched off “MUTE” will appear in the display.

Cassette operation

Switching sound on/off:
Press 🔇 briefly.

Track switch:
Press 🔇 for approx. 1 sec.

ENGLISH

Important notes

What you need to know

Before using your new car audio system, please read through the following information carefully.

Traffic safety

As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times. Never use your car audio system in a way that could distract you.

Please keep in mind that you travel a distance of 14 m per second at a speed of only 50 km/h.

Should the traffic situation become particularly demanding, we advise you not to use the audio system.

Always make sure that you are still able to hear any warning signals coming from outside the vehicle, such as police or fire engine sirens, so that you can react accordingly.

Consequently, you should always select a moderate volume for playing your car audio system while you are driving.

Installation

If you would like to install your new car stereo yourself or add other audio components to existing ones, then please read the enclosed instructions on installation and connection carefully.

Telephone mute

If a car phone has been installed, it is possible to mute radio, cassette and CD playback automatically during a telephone call (telephone mute). “PHONE” will then appear in the display.

Traffic announcements continue to have priority if you have activated TA. You can interrupt traffic messages by pressing **TA**.

Accessories

Use only Blaupunkt-approved accessories and spare parts.
You can use the following Blaupunkt products with this unit:

RC 08 remote control unit

The RC 08 infrared remote control unit allows you to conveniently operate the most important functions from the steering wheel. This remote control unit is included with the Chicago RCM 169 and can be ordered optionally for the other units.

Amplifiers
All Blaupunkt amplifiers

CD changers
The following CD changers can be connected directly: CDC A 06, A 072, A 08.
The A 05 and the A 071 can be connected with the adapter cable 7 607 889 093.
The CDC-A 08 is included with the Hannover 2000 DJ / Kansas DJ.

Guarantee

The scope of the guarantee is determined by the laws in the country where the unit was purchased.
Regardless of the legal guarantee regulations, Blaupunkt affords a 12-month guarantee.
If you have any questions about the guarantee, please contact your dealer. Your cash register receipt is a valid guarantee coupon.

International telephone information

Have you got any questions on the operation of this equipment or do you require more information?
Give us a call!
You will find the international telephone and fax number on the last page of this manual.

KeyCard theft protection system

This car radio comes equipped with one KeyCard, but it can also be operated with a second card.

If you have lost your KeyCard or if it was damaged, you can buy a new one from your specialised dealer.

If you use two KeyCards, the settings stored on the first card will be transmitted to the second. However, you can individually store the following functions:

Preset button assignments, bass, treble, balance and fader settings, Loudness, TA (traffic announcement volume), beep volume, LOW-EQ, HIGH-EQ.

In addition, the settings activated before the radio is switched off, such as the waveband, station, TA priority, AF, REG ON/OFF, SCANTIME, seek tuning sensitivity, ON VOL and SHARX will also remained stored.

This ensures that you will find your basic settings re-adjusted automatically as soon as you have inserted your KeyCard.

Putting the unit into operation

- Turn on the set with **ON**.

To insert the KeyCard, unlock the operating panel by

- pressing (1), the operating panel will fold down.
- Insert the KeyCard with the contacts facing down as shown in the illustration (arrow 1).

- Push the card in the direction of the arrow (2) and lock the operating panel back into position (arrow 3).

The car radio is now ready for operation.

If a wrong KeyCard is inserted, then “CARD ERR” will appear in the display.

The system will switch off after approximately ten seconds.

If another card type is inserted (e.g. phone or credit card), the display will show “WRONG KC” for approximately two seconds.

Remove the wrong card and insert the correct KeyCard.

- Press **ON** to turn on the set.

Removing the KeyCard

To unlock the operating panel:

- Press (1), the operating panel will fold down forwards.
- Push the card in to the right as far as possible and remove it to the front.
- Push the operating panel back into position.

For safety’s sake, the operating panel must remain locked when the vehicle is in motion.
When you leave the vehicle, unlock the panel and remove the KeyCard to protect the equipment against theft.

“Training” a second KeyCard/ Replacing a KeyCard

When the unit is in operation with the first KeyCard, you can “train” a second one to be also used with the set.

If you want to “train” a second KeyCard:

- Insert the first KeyCard and turn on the set.
- Press the **DSC** button and press ∧ / ∨ to select “LEARN KC”.
- Press **<<** or **>>**.

The display will switch to “CHANGE”.

ENGLISH

- Remove the first KeyCard and insert the new one while “CHANGE” still appears in the display.

After the display indicates “READY” or “LEARN KC”,

- press **DSC**.

Now you can also use the new KeyCard for operating your unit.

A maximum of two cards can be used with the set.

If you attempt “train” a third one, the access authorisation for the KeyCard not used for the “training” process will be deleted automatically.

Displaying the radio pass data

You can use the KeyCard supplied with your set to display the radio pass data such as the model name, product number (7 6 ...) and serial number.

Please refer to the section on “DSC programming - READ KC”.

Short Additional Memory (S.A.M.)

The second KeyCard available from your specialised dealer allows you to read out short information, which will run through the display, such as, for example, the phone number of your car dealer or the emergency call number of your automobile association.

The freely selectable text with a maximum of 162 characters can be programmed by any dealer who has the required equipment available.

Turn On Message (T.O.M.)

The second KeyCard available from your specialised dealer also allows you to display a special turn-on message each time the radio is switched on.

The freely selectable text with a maximum of 48 characters can be programmed by any dealer who has the required equipment available.

Each time you turn on your system with the second KeyCard, the programmed text will appear in the display.

Optical display as theft protection

Flashing light diode (15)

When the vehicle is stationary and the KeyCard has been removed, the light diode can be switched to flash for extra anti-theft security.

For this it is necessary that the positive power supply line and the permanent +12 V lead are connected such as described in the installation instructions.
Make sure that the unit is switched off; the operating panel is unlocked; the KeyCard has been removed; “LED ON” has been selected in the DSC mode (factory setting). If necessary, please refer to the section on “DSC programming - LED”.

Switching off the flashing light

The flashing light can be switched off by selecting “LED OFF” in the DSC menu.

Care of your KeyCard

To ensure that the KeyCard will function properly it is important that the contacts are free from any foreign particles. Avoid direct skin contact.

If necessary, clean the KeyCard contacts using a cotton swab soaked in rubbing alcohol.

Lost or damaged KeyCard

If the KeyCard for your unit is lost or damaged you can train a new KeyCard.
You can purchase the new KeyCard from any authorised dealer. You will also require the master code for the unit, which you will find in the radio pass.

! Always keep the radio pass in a safe place. Do not leave it in your vehicle.

Training the new KeyCard

- Insert the new KeyCard into the unit and lock the operating panel into position.
- Press **ON**.
- Within the next 5 seconds, press **TU** and **ST1**. “0000” will appear in the display.
- Now use the rocker switch to enter the four-digit master code in the radio pass:
  ∧ / ∨ - Enter digits (press as often as required)
  << / >> - Select the entry position.
- Press **ENT** after you have entered the correct master code.

The new KeyCard has been accepted when the unit switches to play.

Making mistakes in the entry

If you enter the wrong code, “CODE-ERR” will appear in the display. If you enter the wrong code three times, “WAIT 1h” will appear in the display. The unit will switch to a standby mode for one hour.

- Switch the unit off and on again.

Repeat the steps to train the new KeyCard, but be sure to enter the correct master code.

Selecting the operating mode

You can select the following operating modes: Radio (TU), Cassette (CC) and CD changer (CDC).

CC cannot be selected unless a cassette has been inserted.
CDC cannot be selected unless one of the Blaupunkt changers, the A 06, the A 072, the A 08, the A 05, or the A 071 has been connected and there is at least one CD in the magazine.

To switch the operating mode:

- press **TU**, **CC** or **CDC**.

If you press TU again, the unit will switch to menu level 2. On this level it is possible to adjust the functions for radio operation. The unit will switch back to menu level 1 automatically approx. eight seconds after the last adjustment was made.

Optimising display legibility

The viewing angle of the display can be altered to allow optimum legibility.

- Press **DSC**.
- Press the lower part of the rocker switch ▼ until “ANGLE” appears in the display.

- Press **<< / >>** to set the best viewing angle for your position.

When you have completed the setting

- press **DSC**.

Radio operation with RDS (**R**adio **D**ata **S**ystem)

The **R**adio **D**ata **S**ystem offers you more convenience when you listen to FM radio stations.

More and more radio stations have begun to broadcast RDS information alongside their programs.

As soon as a program has been identified, the station name including a regional identifier, if available, will appear in the display, for example, NDR1 NDS (regional program in Lower Saxony, Germany).

When RDS is activated, the preset buttons become program buttons. You now know exactly which program you have tuned into, making it easy to find the desired station quickly.

But RDS offers you further advantages:

AF - Alternative frequency

The AF (**A**lternative **F**requency) function makes sure that the strongest frequency of the currently selected program is always tuned in automatically.

Switching AF on/off:
For radio operation

- Press **TU**, menu level 2 will appear.
- Press the **AF** button briefly.

The function is activated when “AF” lights up in the display.

“AF” is highlighted for the corresponding softkey.

While searching for the strongest reception signal, the radio may switch to mute briefly.

If “SEARCH” appears in the display when you switch on the radio or recall one of the stored frequencies, this indicates that the unit is automatically searching for an alternative frequency.

“SEARCH” will disappear from the display when the alternative frequency has been found or after the frequency band has been run through completely.

If the reception quality of the selected program deteriorates beyond a certain point:

- Tune into another station.

REG - regional program

Certain radio programs are split up at times into regional programs offering local information. The 1st program broadcast by NDR, for example, offers programs with different contents in the northern states of Germany Schleswig-Holstein, Hamburg and Lower Saxony at certain times of the day.
If you are listening to a program and want to continue to listen to that program, it is advisable to switch to REG ON.
If you leave the service area of the regional program you are tuned into, or if you would like to take advantage of the full RDS service, switch to “REG OFF”.

To switch REG on/off:

- Press **TU**, menu level 2 will appear.

Menu level 2

- Press the key marked REG, you can switch to “REG ON” or “REG OFF”.

The setting selected will appear briefly in the display. When the regional function has been activated, the corresponding key will be highlighted in the display.

Selecting a waveband

With this car radio you can select between the following wavebands:

FM 87.5 - 108 MHz
MW 531 - 1602 kHz
LW 153 - 279 kHz

- Select the desired waveband by pressing **TU**, menu level 2 will appear in the display.

Menu level 2

- Press **BND** (as often as required) to select the waveband.

The radio will switch through the wavebands as follows: FM I, FM II, FMT, MW, LW.

Station tuning

Automatic tuning ∧/∨

- Press ∧/∨; the car radio will automatically search for the next station.

If you hold ∧/∨ on the rocker switch pressed up or down, seek tuning will speed up in upwards or downwards direction.

Seek tuning

∧ Up
∨ Down
<< Down in short intervals
(for FM only; “AF” must be switched off)
>> Up in short intervals
(for FM only; “AF” must be switched off)

Manual tuning with << >>

You can also tune into a station manually.

In this case:
AF and PTY must be switched off (i.e. the symbols do not light up in the display).

If necessary, deactivate these functions in menu level 2.

Manual tuning:

- Press **<< >>**; the frequency will change in short intervals downwards or upwards.

If you hold the right or left part of the rocker switch pressed down, the frequency scan will accelerate.

Scrolling through the broadcasting networks (FM only)

You can use the **<< >>** buttons to tune into stations in your reception area.

If it is possible to receive several programs in the same broadcasting network, you can scroll through them forwards by pressing **>>**, or backwards by pressing **<<**, e.g. NDR 1, 2, 3, 4, ... Start Travelstore:

- Press **TU**; menu level 2 will appear in the display.

If “AF” does not light up,

- press **AF** in menu level 2.

Changing the memory bank (FM)

You can shift between the memory banks I, II and T in order to store stations and recall them later. The currently selected memory bank is indicated in the display.

- Press **NEXT** as often as necessary until the desired memory bank lights up in the display.

Storing stations

On FM, you can store six stations on the preset buttons **ST1 - ST6** for each of the memory banks I, II and T.

On MW/LW, you can also store six stations each.

- Press **TU**, menu level 2 will appear in the display.
- Press **BND** to select the waveband.
- Use the rocker switch to tune into a station (either automatically ∧/∨ or manually **<< >>**).
- Press the desired preset button until the radio resumes play after the muting (takes approximately 2 seconds, confirmed by a beep).

Now the station has been stored.

Note:
Should you tune into a station which has already been stored before on another memory bank, the corresponding preset button and the memory bank will flash briefly in the display.

Automatically storing the strongest stations with Travelstore

You can automatically store the six most powerful FM stations in your current reception area sorted according to their signal strength. This function is particularly convenient on longer trips.

- Press **TU**, menu level 2 will appear in the display.
- Press **TS** briefly.

"T-STORE" will flash in the display.

The six strongest FM stations will be automatically stored on the memory bank T (Travelstore). If it is not possible to receive six stations, the remaining presets will be marked by four dashes. When this process has been completed, the radio will play the station with the strongest reception (ST 1).

If desired, stations can also be stored manually on the Travelstore bank (see "Storing stations").

Recalling stored stations

You can recall any stored station at the touch of a button.

FM

Recall the stations on the waveband selected directly:

- by pressing **ST1 - ST6**.

To select a station on a different waveband:

- Press **NEXT** as often as necessary until the desired memory bank appears and then select the station by pressing **ST1 - ST6**.

MW, LW

You can select the stations stored for the selected waveband directly:

- by pressing **ST1 - ST6**.

To select a station on a different waveband:

- Press **NEXT** as often as necessary until the desired memory bank appears and then select the station by pressing **ST1 - ST6**.

Scanning stored stations with Preset Scan

You can have all of the stored stations briefly scanned on all wavebands and in the selected FM memory bank.

Preset Scan cannot be started unless PTY is switched off (“PTY” is not highlighted in the display).

If necessary, switch off PTY on menu level 2. To do so

- press **TU** and switch off the function by pressing the corresponding key.

To start Preset Scan:

- Press **SCA** for approx. 1 second.

All of the stored stations on the waveband selected and within reception range will be scanned one after the other. “SCAN” and the station name or frequency will flash alternately in the display.

To select a scanned station and switch off Preset Scan:

- Press **SCA** or the rocker switch briefly.

Scanning stations with Radio Scan

You can also scan all of the stations within reception range.

Radio Scan cannot be started unless PTY is switched off (“PTY” is not highlighted in the display).

If necessary, switch off PTY on menu level 2. To do so

- press **TU** and switch off the function by pressing the corresponding key.

To start the Scan function:

- Press **SCA** briefly.

All of the stations on the waveband selected and within reception range will be scanned one after the other. “SCAN” and the station name or frequency will flash alternately in the display.

To select a scanned station and switch off the Radio Scan function:

- Press **SCA or** the rocker switch briefly.

If you do not select a station, the scan function will automatically switch off after the frequency band has been run through completely. The unit will tune into the station you were listening to before you started the scan function.

Changing the scan time

The scan time can be set from between five to a maximum of 30 seconds.

Please refer to the section on “DSC programming - SCANTIME”.

Selecting the seek tuning sensitivity

You can alter the automatic seek tuning sensitivity.

If “lo” is displayed, the radio will only pick up strong, local stations (low sensitivity).

If “lo” does not light up, the radio will also pick up weaker, more distant stations (high sensitivity).

If you want to alter the sensitivity level, please refer to the section on “DSC programming - LO/DX”).

Switching from stereo to mono (FM)

If reception is poor, you may get better sound quality by switching from stereo to mono in the DSC menu. Each time the radio is switched on, stereo playback is activated automatically.

The unit will automatically switch to mono if the signal received is not strong enough for stereo playback.

If you would like to switch to mono, refer to “DSC programming - STEREO/MONO”.

The mode selected is indicated briefly in the display.

Automatic bandwidth adjustment (SHARX)

In the DSC menu, you can use the SHARX function to adjust the bandwidth in the FM frequency range. This can be a great advantage when there are a large number of stations within your current reception range.

Interference with strong adjacent stations can be reduced to an absolute minimum if you activate SHARX ON (factory setting).

If necessary, refer to the section on “DSC programming – SHARX”.

PTY - Program Type

PTY is an RDS service which an increasing number of broadcasting stations have begun to offer. This feature allows you to select FM stations according to their program type. After you have chosen the PTY of your preference, the corresponding stations can be selected either by seek tuning or using the scan function.

Switching PTY on/off

- Press **PTY**.

When the function is active, the program type selected last will briefly appear in the display, e.g. “SPORT”. As long as PTY is active, “PTY” will appear permanently in the display.

Program type

Use **<< >>** to have the last selected program type displayed and to choose a new one.

You can select any one of the stored types with the preset buttons 1-6.

Requirement: PTY must be active.

You can use DSC to select German, English or French as the language used in the display (refer to the section on “DSC programming – PTY LANG”).

The following list indicates all of the program types which are currently available.

The letters printed in bold are identical to the abbreviation which appears briefly in the display.

NEWS
CURRENT **AFFAIRS**
INFORMATION
SPORT
EDUCATE
DRAMA
CULTURE
SCIENCE
VARIED
POP MUSIC
ROCK MUSIC
EASY MUSIC
LIGHT MUSIC
CLASSICS
OTHER MUSIC
WEATHER
FINANCE
CHILDREN’S PROGRAMS
SOCIAL AFFAIRS

RELIGION
PHONE IN
TRAVEL
LEISURE
JAZZ MUSIC
COUNTRY MUSIC
NATIONAL **M**USIC
OLDIES MUSIC
FOLK MUSIC
DOCUMENT

Checking the program type of the station

On menu level 2

- Press **PTY** for approx. 2 seconds.

After the beep tone the display will show the program type offered by the station currently playing.

If “NONE” appears in the display, the current station has no PTY code.

Displaying the selected program type

- Press **<<** or **>>**.

The program type selected last will be displayed briefly.

Selecting a program type

a) Using the preset buttons

When PTY is switched on, you can use the preset buttons ST1 - ST6 to select the program types stored at the factory.

- Press one of the presets 1-6.

The selected program type will be displayed for 2 seconds.

If you would like to listen to a station with this PTY,

- press ∧/∨ to start the seek tuning function.

If the radio is unable to find a station offering the selected program type, the display will show “NO PTY” and a beep tone will be emitted. The radio will select the station which was tuned into before seek tuning was activated.

You can assign different program types to each preset position. Please refer to the next section on “Storing program types”.

b) Using the **<< >>** buttons on the rocker switch

When PTY is switched on, you can select a program type using buttons **<< >>**.

- Press **<<** or **>>**; the program type selected last will be displayed for 3 seconds.
- During this period press **>>** (forwards) or **<<** (backwards) to select the desired type.
- Press **<<** or **>>** as many times as required.

If you would like to listen to a station with the selected PTY,

- press ∧/∨ to start the seek tuning function.

If the radio is unable to find a station offering the selected program type, the display will show “NO PTY” and a beep tone will be emitted. The radio will select the station which was tuned into before seek tuning was activated.

Storing program types

Each of the preset buttons ST1 - ST6 has been assigned one program type at the factory.

If desired, you can also replace these with other available program types.

To do so, make sure that “PTY” lights up in the display.

- If necessary, press the **PTY** button to switch on the function.
- Select a program type using buttons **<< >>** and
- hold down the desired preset button (ST1-ST6) until you hear a beep.

Now the selected program type can be recalled by pressing this preset when PTY has been activated. (“PTY” appears in the display.)

Scanning stations with PTY SCAN

Requirement: “PTY” must appear in the display.

- Press the **SCA** button.

All of the stations in your current reception area offering the selected program type will be scanned.

To switch off PTY-SCAN:

- Press **SCA** or the seek-tuning rocker switch once again.

After the entire waveband has been scanned, the PTY-SCAN function will be turned off automatically.

PTY priority

Situation:

PTY is switched on and lights up in the display.

No station offering the selected program type can be found currently in your reception range (with seek tuning or scan).

The set will switch back to the station previously tuned into.

As soon as it is possible to receive a program in the broadcasting network with the PTY selected, the radio will switch over to the corresponding station for the duration of the program.

Example: German broadcasting network NDR:

- Station playing: NDR3.
- “PTY” lights up in the display.
- Program type “POP” selected.
- Seek tuning is started.
- No station with “PTY-POP” can be found.
- The display shows “NO PTY” and
- automatically switches back to NDR3.
- NDR2 airs a “PTY-POP” program.
- The radio will switch to the linked station NDR2 for the duration of the “POP” program.

During CD operation, the set will also switch to the program offering the selected PTY within the broadcasting network.

After the PTY program has ended the system will switch back to the previous mode (radio or CD).

Note:
As already mentioned, these functions are not supported by all of the RDS stations at the present time.

Traffic information station reception with RDS-EON

The abbreviation “EON” stands for Enhanced Other Networks, which means that information is exchanged within a radio network.

Many FM radio stations provide their service area with traffic messages at regular intervals.

Along with their programs, all traffic information stations transmit a special carrier signal, which is decoded by your car radio. If this signal is identified, “TP” will appear in the display (**T**raffic **p**rogram).

In addition to these, there are also stations which do not actually transmit traffic information themselves, but by using RDS-EON it is possible for them to forward the traffic messages broadcast by another traffic information station in the same radio network.

If you want to have the priority for traffic announcements activated while listening to one of these stations (e.g. NDR3), “TA” must appear on the display panel.

If a traffic announcement is broadcast, the radio will automatically switch to the linked traffic program station (in this case, NDR2) for the duration of the message and return to the original program (NDR3) afterwards.

Traffic announcement priority on/off

If the priority for traffic announcement programmes is activated, “TA” will light up in the display.
To switch the priority on or off:

- Press the **TA** button.

If you press **TA** while a message is being broadcast, this message will be interrupted. The unit will then switch back to the previous mode. The priority for other traffic messages remains active.

Please note that several buttons have no function while a traffic announcement is broadcast.

Warning beep

If you leave the reception area of the traffic information station you are currently tuned into, you will hear a warning beep at intervals of approx. 30 seconds.

This warning beep will also be emitted if you press a preset button for a station which does not send the traffic information signal.

Switching the warning beep off

a) Tune into another station offering traffic information:
   - Press the rocker switch or
   - press a preset button which has a traffic information station allocated to it.

Or:

b) Switch off the priority for traffic announcements:
   - Press **TA**.
     “TA” will disappear from the display.

Automatic search function (Cassette operation)

If you are listening to a cassette and you leave the reception area for the traffic information station you have selected, then the car radio will automatically search for a new traffic information station.
If the radio is unable to find a traffic information station within 30 sec. after the station search has started you will hear a beep every 30 sec. to alert you to this situation.
Proceed as described above to switch off the beep.

Adjusting the volume for traffic announcements and the warning beep

This volume was preset at the factory, but you can use the DSC function to alter the setting as desired (see “DSC programming - TA VOL”).

Cassette operation

Inserting a cassette

- Switch on the car radio and release the operating panel by pressing (1).

The operating panel will fold down forwards.

- Insert the cassette with Side A or 1 facing up without the use of force.

The cassette will automatically be transported to its playing position. Cassette playback will begin.

- Grasp the left-hand side of the operating panel to fold it back up and lock it into place.

Removing a cassette

- With the operating panel in the fold-down position, press the Eject button (arrow) briefly.

The cassette will eject.

To prevent damage to the mechanism, do not attempt to stop or force a cassette while it is being inserted or ejected.

⚠ **For safety's sake, the operating panel must always be returned to the locked position while you are driving.**

Switching on cassette operation

A cassette is inserted, "CC-IN" appears in the display.

- Press **CC**, the cassette functions will appear in the display.

Dolby B NR*

This unit can play cassettes which have been recorded with Dolby B NR or without the use of noise suppression.
Cassettes which have been recorded with Dolby B NR* exhibit significantly less tape noise as well as much greater sound dynamics.
Dolby B NR is active when DD is highlighted in the display.

Switching Dolby B NR on/off:

- press DD.

* The noise reduction system manufactured under licence by the Dolby Laboratories Licensing Corporation. The word DOLBY and the double-D symbol are trademarks of the DOLBY Laboratories.

Selecting the display mode

You can switch the display mode during cassette operation.

- Press **DIS** briefly.
  The display mode selected will appear briefly in the top line of the display.
- Press **DIS** as often as necessary until the desired display mode appears.

"COUNTER" – tape counter
"CLOCK" – time
"ELAPSED" – elapsed playing time for the tape side
"REMAIN" – remaining playing time on the tape side

- This unit is equipped with a real-time counter which calculates the current playing time.
  After a new cassette has been inserted, the real-time counter will switch to a synchronisation phase briefly. During this time, SYNC will appear in the display. The synchronisation phase may vary in length for ELAPSED or REMAIN.

Track reverse

To change the track during playback:

- Press **REV**.

When the tape reaches the end of a side it will automatically switch to the other side (autoreverse). “SIDE A” will appear in the display for track 1 and “SIDE B” for track 2.

Note:
If there is too much tension on the tape while it is playing, it may switch to the opposite track before it has reached the end. Check to see if the tape is wound correctly. It often helps to rewind the cassette completely.

Scanning cassette titles with SCAN

It is possible to scan the titles on a cassette. As soon as you find a title you like, you can end SCAN. This title will then continue to play.

SCAN is active when “SCA” is highlighted in the display. “SCAN” will also appear in the top line of the display.

Starting/ending SCAN:

- Press **SCA** briefly.

To ensure that this function works properly, there must be a pause of at least 3 seconds between titles.

The scan time is set to 10 seconds at the factory and can be altered from 5 to 30 seconds. If necessary, refer to the section on “DSC programming - SCANTIME”.

Selecting titles with S-CPS

(**S**uper **C**assette **P**rogram **S**earch)

To repeat and skip cassette titles.

∧/∨ Select title
∧ Forwards (CPS-FF ..)
∨ Back (CPS-FR ..)

It is possible to skip up to 9 titles. To do so,

- press ∧/∨ on the rocker switch as often as required.

The number of titles to be skipped will appear in the display.

Make any corrections by pressing the opposite key (∧/∨).

Press **REV** to stop this function immediately.

To ensure that this function works properly, there must be a pause of at least 3 seconds between titles.

Repeating titles with RPT

RPT = Repeat

Repeats the title currently playing. This title will repeat until RPT is switched off. The Repeat function will end automatically when the cassette is removed or the unit is switched off.

The Repeat function is active when “RPT” is highlighted in the display.

Switching Repeat on/off:

- Press **RPT**, the active function will appear briefly in the top line of the display (RPT ON/OFF).

To ensure that this function works properly, there must be a pause of at least 3 seconds between titles.

Fast tape forward/rewind

>> **Fast forward**
<< **Fast rewind**

Press **REV** to end fast forward or rewind.

Listening to the radio while fast forwarding or rewinding the tape with Radio Monitor (RM)

You can listen to the radio while fast forwarding or rewinding the tape (for CPS as well) instead of switching the sound to mute. The Radio Monitor function is active when “RM” appears highlighted in the display.

Switching Radio Monitor on/off:

- Press **RM**, the activated function will appear briefly in the top line of the display (RM ON/OFF).

Automatically skipping over blank portions of the tape with Blank Skip (BLS)

As soon as there is a break of more than 10 sec. during cassette playback, the fast forward function will be activated automatically to move to the next title.
The Blank Skip function is active when “BLS” appears highlighted in the display.

Switching Blank Skip on/off:

- Press **BLS**, the activated function will appear briefly in the top line of the display (BLS ON/OFF).

Care instructions

You should use only C60/C90 tape cassettes in your car. Protect your cassettes against dirt, dust and temperatures over 50 °C. Allow cold cassettes to warm up somewhat before playing them to ensure that the tape plays smoothly. Malfunctions in playback or sound may be caused by dirt build-up on the pinch roller and the audio head after approx. 100 hours of operation.
To remove normal dirt build-up clean the equipment with a cleaning cassette. In more stubborn cases, use a cotton swab dipped in rubbing alcohol. Never insert hard instruments into the tape deck.

Changer operation

You can use this car radio to conveniently control CD playback on a Blaupunkt CD changer.
The following CD changers can be connected directly: CDC A 06, A 072, A 08.
The CD changers A 05 and A 071 can be connected with the adapter cable 7 607 889 093.
The CDC A 08 is included with the Hannover 2000 DJ / Kansas DJ.

! Use only standard circular CDs measuring 12 cm in diameter!
CDs measuring 8 cm in diameter or CDs in different shapes such as a butterfly or beer mug are not suitable for playback using this equipment.
This is very likely to result in the destruction of the CD or the CD drive.
We assume no liability for damage to the equipment caused by playing unsuitable CDs.

Switching on CD changer operation

Make sure that at least one CD has been inserted into the magazine.

- Press **CDC**, the CDC functions will appear in the display (track number, name/playback time).

Selecting the display mode

During CD changer operation you can switch the display mode.

- Press **DIS** repeatedly until the desired display mode appears.

"CD10 T3" – CD and track number;
"00:20" Elapsed playing time

"VIVALDI" – CD name
"T3" Track number

"CD10 T3" – CD and track number;
"14:34" Clock

The CD name can only be displayed if you have actually entered one before.
Also refer to the section on "Enter CD names".

Selecting CDs and tracks

You can use the rocker switch to conveniently select other CDs, tracks or passages.

Selecting the CD >> up
<< down
The numbers of the available CDs will appear in the display.

Selecting the track ∧ up
∨ down
If you press ∨ only once, the track currently playing will start again.

Fast forward, audible (CUE).
Hold **>>** pressed down for as long as necessary.

Fast rewind, audible (REVIEW).
Hold **<<** pressed down for as long as necessary.

Repeat tracks/CDs with RPT

RPT = Repeat

You can repeat a track or a CD as often as desired. Use the **RPT** key to select the following functions:

- REP TRCK = Repeat track
- REP CD = Repeat CD
- RPT OFF = Repeat function off

• Press **RPT** as many times as necessary until you have selected the desired setting.

The CD or the track will repeat until you press **RPT** to switch off the function with "RPT OFF".

TPM

(**T**rack **P**rogram **M**emory)

Stores and plays your favourite tracks. It is possible to manage up to 99 CDs with up to 40 tracks.

Storing tracks with TPM

A track can only be stored while it is playing.

To store a track

• press **TPM** for approx. 1 second, "TPM PROG" will appear in the display.

This track has been stored.

Switching TPM playback on/off

• Press **TPM** briefly. The mode selected will appear briefly in the display (TPM ON/OFF).

If "TPM" is highlighted in the display, this means that TPM playback is active. All of the tracks on the CD stored in this operating mode will be played. If you activate SCA (scan) as well, these tracks will be scanned.

TPM playback cannot be activated unless you have already stored tracks with the TPM function.

Deleting the TPM memory

You can use TPM to delete stored tracks. If you want to delete the CD names at the same time, please refer to "Deleting CD names/TPM with DSC UPDATE".

TPM tracks can only be deleted during playback.

• Switch on TPM.
"TPM" will be highlighted in the display.
In this case, "CLR" will appear below TPM.

If you would like to delete the track playing

• press **CLR** for approx. 2 seconds, "TRCK CLR" will flash briefly in the display.

If you would like to delete all of the tracks on the CD playing

• press **CLR** for approx. 5 seconds, "DISC CLR" will flash briefly in the display.

If you would like to delete all of the tracks on all of the CDs in the magazine in changer operation

• press **CLR** for approx. 8 seconds, "ALL CLR" will flash briefly in the display.

MIX

You can have the CD tracks played in random order. The MIX function is active when “MIX” is highlighted in the display.

You can choose the following MIX functions:

MIX CD

The tracks on the selected CD will be played in random order. The next disc will be selected in numerical order. MIX (random order) applies to the playback of the tracks.

MIX MAG

CDC A 08: All tracks on the CDs in the magazine will be played in random order.

CDC A 06 / 072: The CDs in the magazine are selected at random and then the tracks on the CD selected are played in random order.

MIX OFF

The Mix function is deactivated. Discs and titles will be selected in numerical order.

To alter the setting:

- Press **MIX** briefly, the function selected will appear briefly in the display.

SCAN

Use this function to scan all of the CD tracks.

To start the Scan function:

- Press **SCA** briefly, the display will indicate “SCAN”.

The titles will be scanned one after the other in ascending order.

To stop the Scan function:

- Press **SCA** once again briefly.

The track currently scanned will continue to play.

! SCAN will also stop if you press the rocker switch, MIX, RPT, DSC, AUD, TU or CC.

Entering CD names

In the changer mode you can give up to 99 CDs an individual name.

The specified name (e.g. VIVALDI) will appear in the display if you have selected the corresponding display mode with **DIS**.

To start the entry:

- Press the **DSC** button and press ∧/∨ as often as necessary until “CD-NAME” appears in the display.
- Press **<< >>**.

The position for the first character will begin to flash.

- Use the rocker switch ∧/∨ to select the first character.

The capital letters A to Z, the numbers 0 to 9 and special characters will be listed one after the other.

- Use the rocker switch **<< >>** to move to the next position and select a character.

You can select up to 7 characters in this way.

Once you have completed the name as desired:

- Press **ENT** in order to store it.

If you would like to name another CD,

- press **<</>>** and use ∧/∨ to select the next CD you want to name in the magazine.

You can change a name by entering and storing a different one (overwrite).

If you would like to finish your entry,

- press **DSC** to quit the DSC menu.

Deleting CD names/TPM with DSC UPDATE

Use the DSC UPD (update) feature to delete the CD names and the TPM at the same time.

You can delete the name stored for the CD in the CD drive and its TPM with “CLR DISC”.

Use “CLR ALL” to delete the names and TPM for all of the CDs.

- Insert a CD whose data you would like to delete (name and TPM).
- Press **DSC**.
- Press ∧/∨ as many times as required until “CD UPDATE” appears in the display.
- Press **>>** to select “CLR DISC” if you want to delete the name and TPM of that CD,

or

- Press **<<** to select “CLR ALL” to delete the names and TPM stored for all of the CDs.
- Press **ENT** for approx. 1 second. “DELETING” will appear briefly in the display.

The deletion process is complete.

To return to “CD UPDATE” in the DSC menu without deleting the CD names and TPM:

- Press **ENT**.

Clock - Time

This car stereo is equipped with a built-in clock which automatically takes advantage of RDS to ensure highly accurate time-keeping (hours, minutes).

For the clock to function properly with RDS, an RDS station with the CT function (CT – clock time) must be received.

The automatic correction of the time can be switched off.

Setting the clock

a) automatically

The clock is set automatically when the radio is tuned into an RDS station which has the “CT” function (clock time).

b) manually with DSC-CLOCKSET

- Press **DSC** briefly, “CLOCKSET” will appear in the display.
- Press **<< >>** to set the hours/minutes. You can move to a different position by pressing ∧/∨.
- After you have set the clock, press **ENT** briefly to store the new setting.

Displaying the clock

You can set the clock to permanent display in both the radio and CD modes.

Radio mode:

You can switch between clock display and waveband (incl. memory bank for FM). To do so

- press **DIS** for approx. 2 seconds.

Cassette operation:

You can select from four different display modes.

To switch to the clock

- press **DIS** repeatedly until CLOCK appears in the top line of the display.

Changer operation:

You can select from three different display modes.

To switch to the clock

- press **DIS** as often as necessary.

Correcting the clock after the power has been disconnected

If the radio has been disconnected from its power source for a longer period of time, “0:00” will appear in the display when it is re-connected.

The time will be set automatically by RDS-CT, but can also be adjusted manually if desired.

You need only set the time manually if it is not possible to receive an RDS station with CT (clock time).

If you want to set the time manually, refer to the section on “DSC programming - CLOCK-SET”.

Deactivating the hour correction function

In the DSC menu it is possible to switch off the hour correction function with “CLK MAN/CLK AUTO”. An automatic correction for minutes will continue to take place.

This is useful if you would like to display the time for a different time zone, for example.

If necessary,

- Press **DSC** briefly and
- Press ∧/∨ as often as required until “CLK MAN/CLK AUTO” appears in the display.

To deactivate the hour correction function press **<< >>** to select “CLK MAN”.

Setting the equaliser

The acoustic characteristics of the car interior affect the quality of the sound reproduced in your vehicle to a much greater extent than the speakers.

Position, installation and the rear volumes of, for example, the door or rear window shelf all play an important role.

Even the sound produced by well selected and installed speakers can be affected negatively by resonance frequencies in the vehicle interior.

As a result, the bass sounds may be lost or reverberate, the mid-range tones sound too overpowering and music instruments or voices may be distorted or the total sound quality may be completely lifeless.

The overall sound quality can be greatly enhanced if certain frequencies are suppressed or boosted.

This car stereo is equipped with 2 parametric filters. The first filter “LOW EQ” can be set from 32 to 500 Hz, the second filter “HIGH EQ” from 630 to 10000 Hz. In this context, parametric means that it is possible to set the frequency and either boost or reduce it (+10 to –20 dB) individually for each of these filters.

These parametric filters can be adjusted to very exact settings even without the help of measuring instruments.

The individual steps you have to take to make these settings are described in the table.

Notes on making the settings

The following notes are intended as recommendations only. They do not necessarily reflect your own personal sound preferences.

We recommend that you use a music cassette/CD which you are familiar with to adjust the filters. The cassette/CD should include different types of musical instruments and vocals. Purely electronic music is not well suited to serve as a basis for making the settings because the original sounds cannot be determined.

Before you set the equaliser, set bass, treble, balance and fader to “0”.

This setting is described in the Quick Reference under (8) **AUD**.

Now listen to the cassette/CD you have selected.

Evaluate the sound according to your own personal preferences.

Now refer to “Sound impression/problem” in the table and you will find suggestions to eliminate any problems under “What to do”.

Make the settings for bass and the lower mid-range tones with the LOW EQ filter, select HIGH EQ for treble and mid-range tones.

The “HIGH EQ” and “LOW EQ” filters can be set in the DSC menu:

- Press **DSC**.
- Press ∧/∨ as often as necessary until “HIGH EQ” or “LOW EQ” appears in the display.
- Press **<<** or **>>** once and
- Set the level in the following table by pressing ∧/∨.
- Press **<< >>** to switch the frequency range.
- Press **ENT** to store your settings.

You can switch the equaliser on and off by pressing **AUD** for approx. 2 seconds.

Now you can compare the sound produced by your car stereo with and without the equaliser.

Setting recommendations on the Internet

Refer to our home page on the Internet

http://www.blaupunkt.de

to find setting recommendations for new vehicles on the market.

Assistance in setting your equaliser

Start to make your settings in the mid-range/treble and end it with the bass range.

Frequency range	Sound impression/problem	What to do	Notes
Bass 30 – 100 Hz	Bass reproduction too weak	Boost the bass with the “LOW EQ” filter Frequency: 50 to 100 Hz Level: +4 to +6 dB	Avoid distortion. Boost the level carefully if the speaker diameter is too small.
Lower mid-range 100 – 400 Hz	Unclear bass Playback reverberates Unpleasant pressure on the ears	Reduce the lower mid-range with the “LOW EQ” filter Frequency: 125 to 400 Hz Level: approx. –4 dB	The tone may become too lean and aggressive. Pay attention to the underlying tone of the music.
Mid-range sound 400 – 4000 Hz	Sound appears to be too much in the foreground, very aggressive, no stereo effect	Reduce the mid-range with “HIGH EQ” filter Frequency: 1000 to 2500 Hz Level: -4 to –6 dB	Playback should not be too quiet. Tone too powerless.
Treble 4000 to 20000 Hz	Lifeless reproduction Lack of transparency Instruments do not sparkle	Boost treble range with “HIGH EQ” filter Frequency: approx. 10 kHz Level: +2 to +4 dB	Avoid a piercing type of tone. Strong hissing sound unpleasant.

DSC programming

The car stereo has been equipped with DSC (**D**irect **S**oftware **C**ontrol) to allow you to customise certain programmable, basic settings to suit your personal needs and preferences and then store them.
The basic settings for this audio equipment were made at the factory.
In the following you can find an overview of these settings, so that you can always reset to them if desired.
If you wish to alter any of the programming,

- press **DSC**.

Use the rocker switch and the **ENT** button to select and adjust the functions de-scribed in the following. The display will show you the setting you have selected.

∧/∨ Select function
<< / **>>** Adjust/recall value

LOW EQ Equaliser setting:
To activate the frequencies and set the level for the lower frequency range.
Refer to the detailed instructions in the section on “Equaliser setting”.

HIGH EQ Equaliser setting:
To activate the frequencies and set the level for the upper frequency range.
Refer to the detailed instructions in the section on “Equaliser setting”.

TA VOL To adjust the traffic announcement and warning beep volume from between 0 to 66.
The message will then come through at this volume, if the standard volume is lower.
If the standard volume is set higher than the TA VOL level, then the traffic report will be played at the standard volume.

CD NAME Appears during changer operation only.
Use this function to name your CDs. (See “Entering CD names”)

SHARX Switches the bandwidth in the FM frequency range. When there are a large number of stations within your current reception range, use **<< >>** to switch to SHARX ON which will prevent most interference from adjacent radio stations. This function has been set to “SHARX ON” at the factory.

HICUT Interference-related cut in the treble sound. Cuts the treble when interference occurs. Can be adjusted from NO HICUT (OFF) to HICUT 3 (highest setting). Which setting is the most pleasant is a matter of personal preference.

LO/DX To adjust the seek tuning sensitivity.

"LO" stands for local reception.
"DX" stands for distant reception.
Select "LO 3" if you want to receive strong stations in the local area, select "DX 1" if you want to tune into weaker stations which are further away.

STEREO/MONO

Switch modes by pressing **<< >>**.
The mode selected will appear briefly in the display. The radio will begin with STEREO playback each time it is switched on.

CLOCKSET To set the clock manually. Press **<< >>** to set the hours/minutes. Move to the next flashing position by pressing ∧/∨. To store the setting selected, press **ENT** briefly.
Also refer to the section on "CLOCK".

CLK AUTO/MAN

Switches the hour correction function on/off. Read the information in the section on "Clock, Deactivating the hour correction function".

12/24H MODE

Select the clock display (12 or 24-hour display)

CLK ON/OFF The clock display will appear when the ignition is switched on, but the car stereo is switched off. In this case, set CLK ON.

ON VOL Use this function to select the volume at which the radio is set when it is switched on.
Adjust the desired volume level with **<< >>**.
When adjusted to "LAST VOL", the system will come on at the volume selected before it was switched off.

BEEP Acknowledgement tone for all functions which require a button to be pressed for more than one second.

The volume can be adjusted from between 0 to 9.
(0 = off)

DIM DAY Use this function to select the display brightness for the daytime (from 1 to 9).

DIM NIGHT Use this function to select the display brightness for the night-time (from 1 to 9).

The brightness changes accordingly when the car headlights are switched on/off.

ANGLE Adjusts the display to the individual viewing angle.

SCANTIME Use this function to set the scan time for the radio or CD player from 5 to 30 seconds.

PTY LANG Select the language used for program type identification:
German, English or French.

AUX ON/OFF *(for Kansas DJ, Chicago RCM 169)*
This menu item will not appear unless a CD changer has been connected to the system. The factory setting is “OFF”.
If another system component is connected to AUX, this setting must be altered to “AUX ON”.

LEARN KC To “train” a second KeyCard.
Please read the information in the section on “KeyCard theft protection system” - “Training a second KeyCard”.

READ KC To read out the KeyCard data.
The card supplied with the radio is used to display the model name, type number (7 6 …) and the serial number.
With the extra card it is possible to display data entered by your specialised dealer.
(See the section on “Short Additional Memory S.A.M.”).
If you remove the KeyCard during the reading process, “READ KC” will appear on the display panel.

LED ON/OFF Here you can choose between LED ON or LED OFF. With LED ON, the “ON” knob will flash for extra anti-theft protection when the unit has been switched off and the KeyCard removed.

PEAK ON/OFF
Switches the dynamic level display for the volume on/off.

TOM ON/OFF If you have a second KeyCard with a Turn-On Message, you can switch off this information with “TOM OFF”. The factory setting is “TOM ON”.
For more information refer to “ KeyCard theft protection system” - “Turn ON Message (T.O.M.)”.

UPDATE Allows you to delete CD names during changer operation to make room for new CDs. (Refer to “Deleting CD names with DSC-UPDATE”.)

To quit the DSC programming mode and store the adjustment:

- Press **DSC**.

Overview of the DSC factory settings

LOW EQ	0 dB/40 Hz
HIGH EQ	0 dB/630 Hz
TA VOL	35
CD NAME	-
SHARX	SHARX ON
HICUT	HICUT 2
LO / DX	DIST 1
STEREO/MONO	STEREO
CLOCKSET	0:00
CLK AUTO / MAN	CLK AUTO
12/24H MODE	24H MODE
CLK ON/OFF	CLK OFF
ON VOL	LAST VOL
BEEP	3
DIM DAY	9
DIM NIGHT	9
ANGLE	0
SCANTIME	10 sec.
PTY LANG	DEUTSCH
AUX	OFF
LEARN KC	-
READ KC	-
LED	ON
PEAK ON/OFF	ON
TOM ON/OFF	ON
UPDATE	-

Specifications

Amplifier

Output power: 4 x 25 W RMS power acc. to DIN 45324 at 14.4 V
4 x 40 W max. power

Tuner

Wavebands:

FM	:	87.5 - 108 MHz
MW	:	531 - 1602 kHz
LW	:	153 - 279 kHz

FM sensitivity: 0.7 µV at 26 dB signal-to-noise ratio

FM frequency response:
20 - 16000 Hz

Tape

Frequency response: 30 - 19000 Hz

Subject to modifications!

Glossary - Technical Terminology

AF - **A**lternative **F**requency

In RDS this function ensures that the radio always tunes into the frequency with the best reception for the station.

Amplifier

Amplifies the output power.

AUD – **Aud**io

Sound settings for bass and treble, balance (left/right) and fader (front/rear).

Autoreverse

See Reverse.

BLS – **Bl**ank **S**kip

Automatically skips longer portions of blank tape during cassette operation, e.g. at the end of the tape.

BND (**Band**)

Switches between wavebands and memory banks.

Changer

CD changer

CL – **Cl**ear

Returns to the previous menu item.

CPS – **C**assette **P**rogram **S**earch

Repeats and skips cassette titles. Use S-CPS to select specific cassette titles.

Dolby B NR

The noise reduction system manufactured under licence by the Dolby Laboratories Licensing Corporation.
The word DOLBY and the double-D symbol (◻◻) are trademarks of the DOLBY Laboratories.
Cassettes which have been recorded with Dolby B NR* exhibit significantly less tape noise as well as much greater sound dynamics.

DSC – **D**irect **S**oftware **C**ontrol

With the help of DSC it is possible to adjust the basic factory settings to your own personal preferences.

Real-time counter

Provides a precise calculation of the current playing time.

ENT (**Ent**er)

Press briefly to accept/store settings.

EON – **E**nhanced **O**ther **N**etwork

In RDS, EON makes it possible to exchange station information within a station network. Traffic information, for example, can be forwarded automatically from a traffic information station to a station which does not broadcast traffic information in the same network. After the traffic announcement has been put through, the radio switches back to the original station.

Equalizer

Adjusts the frequencies to the acoustic conditions and personal tastes.

EXIT

Press to end/cancel a setting.

KeyCard

Theft protection system from Blaupunkt. The car stereo cannot be operated without the correct KeyCard.

MIX

CDs/CD tracks are played in random order.

MUTE

Switches audio off

Glossary - Technical Terminology

Preset Scan

See Scan

PTY

Designed for the selection of a specific type of program in FM (e.g. sports, news). Also see RDS.

RDS – **R**adio **D**ata **S**ystem

Service provided by radio stations to enhance radio listening pleasure.
The station name, for example, is displayed instead of the frequency.

Other RDS functions include:

AF – Alternative Frequency
EON – Enhanced Other Networks
Radio text
REG – Regional program
PTY – Program type
TA – Traffic Announcement
TP – Traffic Program

REG

Regional programs have priority. REG ON stops the radio from automatically switching to a different regional program broadcast by the same station because it has better reception. Also see RDS.

Reverse

Switches the tape running direction during cassette playback.
Autoreverse automatically switches to the other side at the end of the tape.

RM – Radio Monitor

Automatically switches to radio playback while the tape is fast forwarding or rewinding.

RPT (**Rep**eat)

Repeats CD tracks. In changer operation you can repeat single tracks or complete CDs.

SCAN

Briefly plays the radio stations in your current reception range or the tracks on a CD in CD mode. Using Preset Scan you can scan the radio stations stored on the preset buttons.

S-CPS – **S**uper **C**assette **P**rogram **S**earch

See CPS.

Softkey (**Soft**ware **key**)

Key with varying functions

TA - **T**raffic **A**nnouncement (priority for traffic information)

“TA” in the display indicates that the priority for traffic announcements has been switched on. Also see RDS.

TP - **T**raffic **P**rogram

“TP” in the display indicates that the radio is tuned into a station which broadcasts traffic information. Also see RDS.

TPM – **T**rack **P**rogram **M**emory

Stores and plays your favourite tracks in CD or changer mode.

TS – **T**ravel**s**tore

Automatically stores the stations with the best reception on the station preset buttons. Very useful during trips.

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Great Britain	018 958 383 66	018 958 383 94
Denmark	44 89 83 60	44 89 86 44
Sverige	08 750 15 00	08 750 18 10
Norway	66 81 70 00	66 81 71 57
Suomi	094 359 91	094 359 92 36
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